

ACTIVATION INDICATOR FOR PRESSURE AND TEMPERATURE RELIEF DEVICE
ABSTRACT OF THE DISCLOSURE

An activation indicator for a pressure and temperature relief device includes a frangible container containing a fire-extinguishing powder. The fire-extinguishing powder serves the purpose of extinguishing or preventing ignition of flammable gases released by the relief device. The powder further provides a visual and odorous indication that there has been a release of gases through the inclusion of indelible dyes, which is particularly useful in systems that use invisible, odorless gases such as hydrogen or natural gas. The frangible container is preferably a fabric pouch protected from mechanical damage and impervious to moisture to prevent premature release or contamination of the powder. The pouch is fluidly connected to the relief device so that the flow and pressure of escaping gas causes the pouch to rupture, releasing the powder to extinguish or prevent a fire in the escaping gas and to provide an indication of a release event to an observer.